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**United States Patent**

[19]

**Martin****Patent Number:** **5,652,274****[45] Date of Patent:** **Jul. 29, 1997****[54] THERAPEUTIC-WOUND HEALING COMPOSITIONS AND METHODS FOR PREPARING AND USING SAME****[76] Inventor:** **Alain Martin**, 31 Country Club Dr., Ringoes, N.J. 08551**[21] Appl. No.:** **445,813****[22] Filed:** **May 22, 1995****Related U.S. Application Data****[63]** Continuation-in-part of Ser. No. 187,435, Jan. 27, 1994, abandoned, which is a continuation of Ser. No. 798,392, Nov. 26, 1991, abandoned, which is a continuation-in-part of Ser. No. 663,500, Mar. 1, 1991, abandoned.**[51] Int. Cl.<sup>6</sup>** **A61K 31/45; A61K 31/07; A61K 31/34; A61K 47/00****[52] U.S. Cl.** **514/724; 514/461; 514/562; 514/567; 514/725; 514/774; 514/784****[58] Field of Search** **514/724, 725, 514/461, 774, 784, 562, 567****[56] References Cited****U.S. PATENT DOCUMENTS**

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*Primary Examiner*—Theodore J. Criares  
*Attorney, Agent, or Firm*—Jean B. Barish

**[57] ABSTRACT**

This invention pertains to therapeutic wound healing compositions for protecting and resuscitating mammalian cells. In one embodiment, the therapeutic wound healing composition comprises (a) pymvate, (b) an antioxidant, and (c) a mixture of saturated and unsaturated fatty acids. In another embodiment, the therapeutic wound healing composition comprises (a) pyruvate, (b) lactate, and (c) a mixture of saturated and unsaturated fatty acids. In yet another embodiment, the therapeutic wound healing composition comprises (a) an antioxidant and (b) a mixture of saturated and unsaturated fatty acids. In still yet another embodiment, the therapeutic wound healing composition comprises (a) lactate, (b) an antioxidant, and (c) a mixture of saturated and unsaturated fatty acids. This invention also pertains to wound healing compositions combined with a medicament which is useful for treating injured mammalian cells to form augmented wound healing compositions such as immunostimulating-wound healing compositions, antiviral-wound healing compositions, antikeratolytic-wound healing compositions, anti-inflammatory-wound healing compositions, antifungal-wound healing compositions, acne treating-wound healing compositions, sunscreen-wound healing compositions, dermatological-wound healing compositions, antihistamine-wound healing compositions, antibacterial-wound healing compositions, and bioadhesive-wound healing compositions. This invention also pertains to wound healing compositions combined with a cytotoxic agent to form cytoprotective-wound healing compositions useful for protecting and reducing injury to mammalian cells and to razor cartridges comprising the wound healing compositions. This invention also pertains to methods for preparing and using the wound healing compositions and the topical and ingestible pharmaceutical products in which the therapeutic compositions may be used.